



BK-4927

**8K@60Hz 4-port HDMI™ Switch
(HDMI™ Audio, 3.5mm, Optical)**

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USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note - Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

 Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

 Email: info@orei.com

 Phone: 877-290-5530

 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The BK-4927 is a powerful 4x1 HDMI™ switcher designed to easily connect and control multiple media sources while delivering exceptional video and audio quality. It connects up to four HDMI™ sources to a single 8K or 4K display, making it ideal for home theaters, gaming setups, and professional AV systems.

This device supports video resolutions up to 8K@60Hz (4:2:0, 12-bit) and 4K@120Hz (4:4:4, 12-bit), ensuring ultra-sharp visuals with vibrant color detail. Built on HDMI™ 2.1 protocol and compliant with HDCP 2.3, the switch is future-ready and supports a video bandwidth of 48Gbps FRL and 18Gbps TMDS for smooth, uncompressed performance.

It supports HDR pass-through including HDR10+, Dolby Vision, and HLG. The audio de-embedding feature lets you route audio to a Non-ARC AV receiver, non-ARC soundbar, amp, or speaker system via HDMI™, SPDIF (Toslink), or 3.5mm output. It also includes support for Dolby Atmos, DTS:X, LPCM 7.1CH, and more for an immersive audio experience.

With both automatic and manual input switching, CEC control, and a compact build, the BK-4927 is a versatile and reliable centerpiece for any high-end AV setup.

Features

1. **Connect 4 HDMI™ Sources to 1 Output** – Easily switch between four devices on a single 8K or 4K display.
2. **Resolutions up to 8K@60Hz and 4K@120Hz** – Delivers stunning ultra-high-definition visuals.
3. **HDMI™ 2.1 & HDCP 2.3 Compliant** – Ensures compatibility with the latest HDMI™ standards and protected content.
4. **48Gbps FRL and 18Gbps TMDS Bandwidth** – Enables smooth transmission of high-bitrate video signals.
5. **HDR Pass-through** – Compatible with HDR, HDR10, HDR10+, Dolby Vision, and HLG for enhanced contrast and color.
6. **Audio De-embedding** – Extracts audio to Non-ARC AV Receivers, Non-ARC soundbars, amps, headphones, or speakers via HDMI™, SPDIF (Toslink), or 3.5mm analog output.
7. **Audio Format Support** – Includes Dolby Atmos, DTS:X, DTS-HD Master Audio, Dolby TrueHD, and LPCM 7.1CH.
8. **TV eARC & HDMI™ Audio-Only Output** – Allows audio return from TV and dedicated audio transmission.
9. **Auto & Manual Input Switching** – Conveniently switch sources automatically or via manual control.
10. **CEC Control** – Enables input and volume control through the TV's remote.
11. **Compact Design** – Ideal for both high-end home theaters and commercial AV applications.

Specifications & Package Contents

Package Contents

1.	BK-4927	1 pcs
2.	IR Remote	1 pcs
3.	Power Adapter	1 pcs
4.	User Manual	1 pcs

Specifications

Technical	
HDMI™ Compliance	HDMI™ 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit The available resolutions are shown as follow.
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Color Depth	8/10/12-bit
HDMI™ Audio Formats	HDMI™ Input/Output: LPCM 2.0 -7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD Master, DTS:X Audio De-embedding Output: Optical Audio (S/PDIF): LPCM 2.0, Dolby Digital, Dolby Digital Plus, DTS Analog Audio (L/R): LPCM 2.0

Specifications

IR Level	5V
IR Frequency	Fixed frequency 38KHz
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	4× INPUT [HDMI™ Type A, 19-pin female]
Output	1× OUT 1 (eARC) [HDMI™ Type A, 19-pin female] 1× OUT 2 (AUDIO ONLY) [HDMI™ Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm stereo mini-jack]
Control	1× SERVICE [USB Type C, update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	200mm [W] × 84mm [D] × 20mm [H]
Weight	430g
Power Consumption	1.4W (Max)
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%-80% (relative humidity, non-condensing)
Storage Humidity	10%-90% (relative humidity, non-condensing)

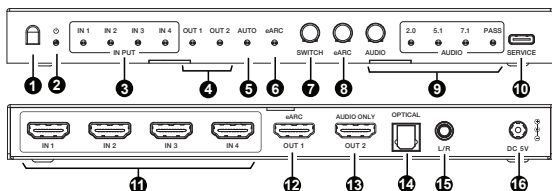
Specifications

Recommended HDMI™ Cable			
Video Resolution	8K60/8K30/4K120	4K60	1080P
HDMI™ Cable Length (IN / OUT)	2m/6.6ft (Ultra HDMI™ 2.1)	5m/16.4ft	10m/32.8ft
The use of "Premium High Speed HDMI™" cable is highly recommended.			

All available input/output resolutions:

640x480p60Hz, 800x600p60Hz, 1024x768p60Hz, 1280x1024p60Hz,
1360x768p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1600x1200p60Hz,
720x480i59.94Hz(480i59), 720x480p59.94Hz(480p59), 720x576i50Hz(576i50),
720x576p50Hz(576p50), 1280x720p50Hz(720p50), 1280x720p59.94Hz(720p59),
1280x720p60Hz(720p60), 1920x1080i50Hz(1080i50), 1920x1080i59.94Hz(1080i59),
1920x1080i60Hz(1080i60), 1920x1080p23.98Hz(1080p23),
1920x1080p24Hz(1080p24), 1920x1080p25Hz(1080p25),
1920x1080p29.97Hz(1080p29), 1920x1080p30Hz(1080p30),
1920x1080p50Hz(1080p50), 1920x1080p59.94Hz(1080p59),
1920x1080p60Hz(1080p60), 3840x2160p23.98Hz(2160p23),
3840x2160p24Hz(2160p24), 3840x2160p25Hz(2160p25),
3840x2160p29.97Hz(2160p29), 3840x2160p30Hz(2160p30),
3840x2160p50Hz(2160p50), 3840x2160p59.94Hz(2160p59),
3840x2160p60Hz(2160p60), 3840x2160p100Hz(2160p100),
3840x2160p120Hz(2160p120), 4096x2160p23.98Hz, 4096x2160p24Hz,
4096x2160p25Hz, 4096x2160p29.97Hz, 4096x2160p30Hz, 4096x2160p50Hz,
4096x2160p59.94Hz, 4096x2160p60Hz, 4096x2160p100Hz, 4096x2160p120Hz,
5120x2160p50Hz, 5120x2160p60Hz, 7680x4320p23.98Hz, 7680x4320p24Hz,
7680x4320p25Hz, 7680x4320p29.97Hz, 7680x4320p30Hz, 7680x4320p50Hz,
7680x4320p60Hz(4:2:0)

Operation Controls and Functions



No.	Name	Function Description
1.	IR Window	IR input signal receiving window.
2.	Power LED	When the device is powered on, the power LED is green; When the device is standby, the power LED is red.
3.	IN LED (1~4)	When the HDMI IN 1/2/3/4 port is selected as the signal input channel, the corresponding green LED will light up.
4.	OUT LED (1~2)	When the HDMI OUT 1/2 port is connected to the display device, the corresponding green LED will light up.
5.	AUTO LED	When the auto switching function is enabled, the green LED will light up.
6.	eARC LED	eARC status indicator. - On: eARC function is working normally. - Blinking: eARC function is working abnormally. - Off: eARC function is disabled.
7.	SWITCH button	- Short press this button to circularly switch HDMI input signal to the OUT 1 port. - Long press for 3 seconds to enable or disable the auto switching*. Note: Auto switching is enabled by default.
8.	eARC button	Press the button to enable or disable the ARC/eARC function.

Operation Controls and Functions

No.	Name	Function Description
9.	AUDIO button & LEDs	Press the button to circularly switch the four EDID for inputs. 2.0 - Copy out1 video EDID + 2.0CH AUDIO EDID 5.1 - Copy out1 video EDID + 5.1CH AUDIO EDID 7.1 - Copy out1 video EDID + 7.1CH AUDIO EDID PASS - Copy out1 EDID When the EDID is selected, the corresponding LED will be on.
10.	SERVICE	Firmware update and debug port.
11.	IN 1/2/3/4	HDMI input ports, connected to HDMI source device such as DVD, PS4 or Set-top Box with HDMI cable.
12.	OUT 1 (eARC)	HDMI output port, connected to an HDMI display device such as TV with eARC function.
13.	OUT 2 (AUDIO ONLY)	HDMI audio output port, connected to an audio device such as soundbar or amplifier.
14.	OPTICAL	Optical fiber audio output port, connected to an audio playback device such as amplifier.
15.	L/R	Analog audio output port, connected to an audio playback device such as speaker.
16.	DC 5V	DC 5V/1A power input port.

* Standby Function

You can make the switcher enter standby mode via the remote of source devices or the TV remote. This function can be enabled or disabled via long press eARC button for 5 seconds.

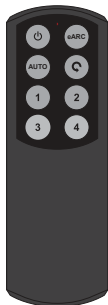
IR Remote

* Auto Switching

The auto switching function can be enabled/disabled via the SWITCH button on the front panel or IR remote. Auto switching function is enabled by default.

1. If one IN port is connected, and the others are connected later. It will switch to the lastest one automatically (last in gets priority) as the input channel, and the corresponding LED will be on.
2. If the four IN ports are all connected, when one of them is disconnected, it will switch to the next IN port automatically according to the order of IN 1~4.
3. If only one IN port is connected, it will not automatically switch to the others when disconnected.

IR Remote



Power: Press to turn on or turn off the switch.

eARC: Press to enable or disable eARC function.

Auto:

Press to enable or disable the auto switching function.

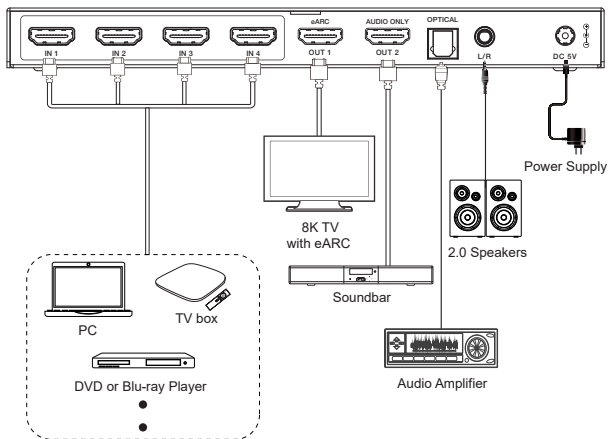
1/2/3/4 :

Press 1/2/3/4 button to select the corresponding signal input channel.

↻:

Press this button to circularly switch HDMI signal source IN 1/2/3/4.

Application Example



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

FAQs & Troubleshooting

1. What is the maximum length of the HDMI cables?

- We recommend using HDMI 2.1 cables under 10 feet for best 8K experience

2. Does the HDMI TV output also send audio to the TV?

- Yes, the TV will get both audio and video pass through as long as both are in a compatible format from the media source.

3. Can I use the TV remote to control the Soundbar/AVR volume?

- The TV remote can be used to control the soundbar/AVR and the media sources as long as the TV is ARC/eARC enabled and the eARC LED on the front is lit up.
- The Optical and 3.5mm ports cannot be controlled through the TV remote regardless of the situation above.

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

Our team will be more than happy to help you.

OREI Live Technical Support Hours

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